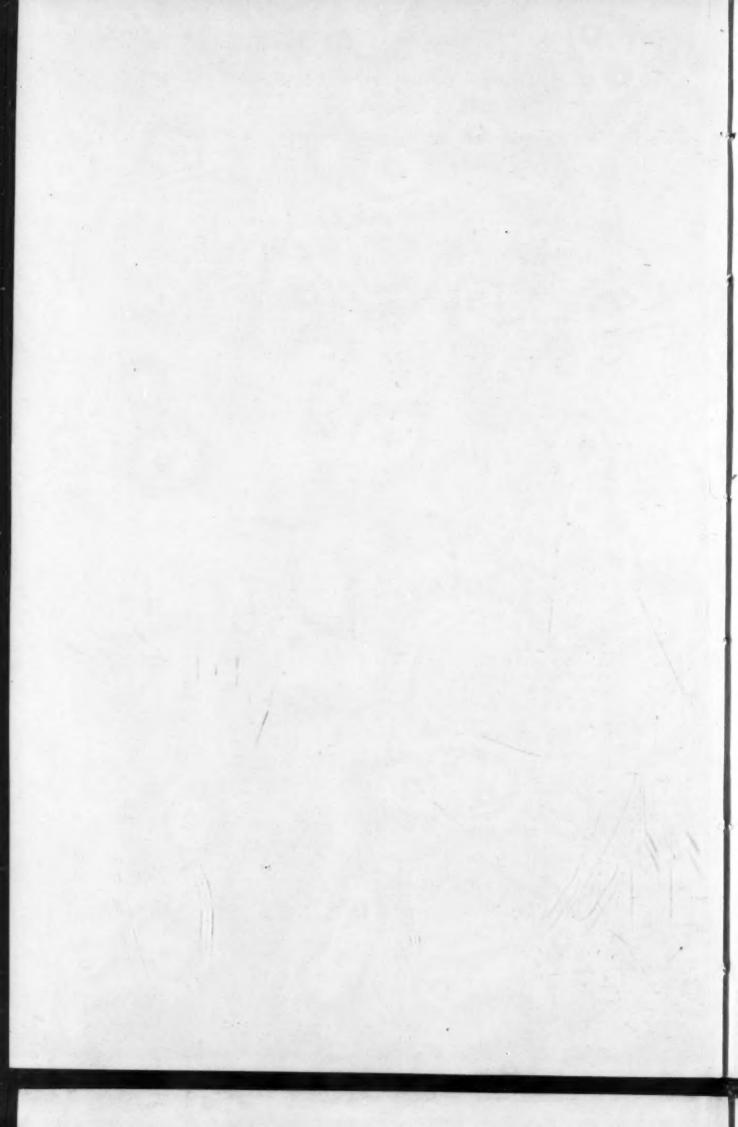
### INDEX OF AUTHORS

#### VOLUME XL

# TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

#### 1948

A		M	(
Armstrong, C. D	1099	MacGregor, C. W	302
Averbach, B. L703,	728	Marcotte, R. J.	649
Avery, Howard S	529		617
D D	020	Meinhart, W. L	011
Demotrie Harald	900	N	
Bernstein, Harold	209	Nippes, E. F	870
Bittner, E. T	263		
Bowen, Harold G., Jr	209	0	
Boyer, Howard E	491 813	Osborn, H. B., Jr	1012
Brick, R. M.		0300111, 11. 15., 31	
Burns, Jay R	143	P	
C		Potter, E. V355,	381
Campbell, R. F	954	Poynter, James W	1077
Cohen, M703,	728		1011
D		R	
	901	Rahrer, G. D	1099
Dean, R. S355,		Reinhart, Fred M	1124
Derge, G	922	Roberson, A. H	401
Digges, Thomas G		Roberts, George A	435
Donleavy, M. R	954	Rogers, W. T	935
E	1	Rowland, D. H.	983
Eddy, C. T	649		000
Elmendorf, H. J		S	
Epremian, E		Sawyer, C. F	922
F		Schwartz, H. A	223
	000	Seigle, L	813
Fisher, J. C.	302	Shephard, H. D	758
Fletcher, S. G703,	728	Sloan, J. R	
- G		Spretnak, J. W897,	
Goldsmith, J. R	617	T	
Graham, T. R	401		
Grant, Nicholas J		Taub, J. M	180
Grobe, Arthur H		Tyson, J. D	233
Guarnieri, Glen J		v	
н			
	1000	Valentine, K. B	420
Hays, R. H.		w	
Hedberg, James		· ·	4040
Henderson, Q		Walton, C. F.	
Herres, S. A		Wilder, A. B	233
Huber, R. W355	, 551	Wilks, Charles R	
K		Williams, W. Lee	
Kanter, J. J	1147	Wishart, H. B	
Kinzel, Augustus B		Wolfe, K. J. B	120
Koehler, E. L		. Y	
L		Yap, Chu-Phay	. 83
	401		00
Long, J. R	401	Z	
Loria, Edward A677		Zanffe Carl A	315
Lorig, C. H	. 775 . 355	Zapffe, Carl A Ziegler, N. A	
Lukens, H. C	. 555	Liegier, N. A	. 011



## INDEX OF SUBJECTS AND AUTHORS OF PAPERS

## VOLUME XL

### TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

#### 1948

#### A

Acicular Transformations in Alloy Steel-By E. A. Loria and H. D.	
Shephard Acid Refining Process; Physical Chemistry of—By Yap, Chu-Phay	758
Alloy Cast Iron; Some Factors Affecting the Induction Hardening of—	83
	1036
Alloy Spring Steels—Ry E. T. Rittner	263
Alloy Steel; Acicular Transformations in-By E. A. Loria and H. D.	750
Shephard	758
By C. F. Sawyer, J. W. Spretnak and G. Derge	922
Alloy Steel Ingots; Macrosegregation in Some—By J. W. Spretnak	897
Aluminum Alloy Sheet; Stretching Characteristics—By J. M. Taub	180
Aluminum-Copper Alloy; Effect of Sixteen Alloying Elements Upon the Grain Size of Cast—By Harold G. Bowen, Jr., and Harold Bernstein	209
Annual Address of the President	6
Annual Dinner of ASM	19
Annual Meeting of ASM	5
Annual Report of the Secretary  Annual Report of the Treasurer	12 10
Austenite and Martensite Decomposition at Room Temperature—The	10
Dimensional Stability of Steel-By B. L. Averbach, M. Cohen and	-
S. G. Fletcher  Austenite Grain Size in Heat Treated Cast Alloy Steels; Detection of—	728
By Edward A. Loria	677
Dy Laword A. Lorid	011
В	
Beryllium in Magnesium Casting Alloys—By Jay R. Burns	143
Beryllium-Nickel Alloys; Heat Treatment and Properties of Some—By	
W. Lee Williams	163
	870
Nippes	1000
By G. D. Rahrer and C. D. Armstrong	1099
Notch Toughness of—By Thomas G. Digges and Fred M. Reinhart	1124
Trotter 2 ougliness of 23 Thomas of 2 1990 and 2 to 22 Thomas C.	
С	
Campbell Memorial Lecture-22nd; Ductility of Steels for Welded	
Structures—By Augustus B. Kinzel	27
Carbon-Molybdenum Steels; The Effect of Silicon on the Properties of Cast Carbon and—By N. A. Ziegler, W. L. Meinhart and J. R.	
Goldsmith	617
Cast Alloy Steels; Detection of As-Cast Austenite Grain Size in Heat Treated—By Edward A. Loria	677
Cast Steels: The Effect of Homogenization on—By R. J. Marcotte and	0//
C. T. Eddy	649
Chromium-Cobalt J Alloy at 1350 to 1800 °F—By Nicholas J. Grant	585
Chromium (4 to 6%) + ½% Molybdenum Cast Steel; Some Characteristics of the Metastable Austenite of—By Glen J. Guarnieri and J. J.	
Kanter	1147

Chromium-Nickel Type; Cast Heat Resistant Alloys of the—By Howard S. Avery and Charles R. Wilks	529			
Elmendorf  Cobalt-Chromium J Alloy at 1350 to 1800 °F—By Nicholas J. Grant  Cold-Worked and Normalized Alloys Containing 26 to 48% Mangane  Properties of—Iron-Manganese Alloys—By J. R. Long, T. R. Grant				
and A. H. Roberson				
Peening Intensities—By K. B. Valentine  Concept of the Hydrogen Potential in Steam-Metal Reactions—By Carl  A. Zabffe				
Potter, R. H. Huber and H. C. Lukens				
Huber Cracks by Hot Working; Elimination of Shatter—By E. L. Koehler and H. B. Wishart				
	513			
D				
Damping Capacity of Copper-Manganese Alloys—By R. S. Dean, E. V. Potter, R. H. Huber and H. C. Lukens	355			
Decomposition of Martensite and Austenite at Room Temperature—The Dimensional Stability of Steel—By B. L. Averbach, M. Cohen and				
S. G. Fletcher  Diamond Pyramid Hardness Number at Light Loads; A New Design of Microhardness Tester and Some Factors Affecting the—By R. F. Campbell, Q. Henderson and M. R. Donleavy  Ductility of Steels for Welded Structures—By Augustus B. Kinzel				
				E
Election of Officers of ASM  Electrical Resistivity and Temperature Coefficient of Resistance of Copper- Manganese Alloys—By R. S. Dean, E. V. Potter and R. H. Huber.	18 381			
F				
Ferrites; The Fatigue Strength of Binary—By E. Epremian and E. F. Nippes	870			
d .				
Galvanized Coatings; Metallography of Hot-Dipped—By D. H. Rowland Grain Size in Heat Treated Cast Alloy Steels; Detection of As-Cast	983			
Austenite—By Edward A. Loria				
J. D. Tyson				
Н				
Hardenability of Boron Steels: The Effect of Carbon Content on the— By G. D. Rahrer and C. D. Armstrong	1099			

Heat Resistant Alloys of the 26% Chromium-20% Nickel Type—Part I— By Howard S. Avery and Charles R. Wilks	529
By Howard S. Avery and Charles R. Wilks	677
Size in—By Edward A. Loria	163
W. Lee Williams. High Speed Steel; The Bend Test for Hardened—By Arthur H. Grobe	
and George A. Roberts  Hydrogen Potential in Steam-Metal Reactions; Concept of the—By Carl	435
A. Zapffe	315
I	
Induction Hardening of an Alloy Cast Iron; Some Factors Affecting the —By J. R. Sloan and R. H. Hays.  Induction Hardening of a Quality Controlled Iron—By C. F. Walton and H. B. Osborn, Jr.  Ingot; The Distribution of Oxygen and Nitrogen in an Alloy Steel—By C. F. Sawyer, J. W. Spretnak and G. Derge.  Ingots; Macrosegregation in Some Alloy Steel—By J. W. Spretnak  Investigation of Tempered Chromium-Silicon Spring Steel—By H. J. Elmendorf  Iron; Induction Hardening of a Quality Controlled—By C. F. Walton and H. B. Osborn, Jr.  Iron-Manganese Alloys—Properties of Cold-Worked and Normalized Alloys Containing 26 to 48% Manganese—By J. R. Long, T. R. Graham and A. H. Roberson  L  Location of Alloying Metals in White Cast Iron—By H. A. Schwartz and	1077 1036 1012 922 897 281 1012 401
James Hedberg  Low Temperatures; Mechanical Properties of Metals at—By L. Seigle and R. M. Brick	223 813
M	
Machining Metals; Some Fundamental Factors Involved in Intermittent	
Metal Cutting Processes, With Special Reference to Shaping—By K. J. B. Wolfe  Macrosegregation in Some Alloy Steel Ingots—By J. W. Spretnak  Magnesium Casting Alloys; Beryllium in—By Jay R. Burns  Martensite and Austenite Decomposition at Room Temperature—The Dimensional Stability of Steel—By B. L. Averbach, M. Cohen and S. G. Fletcher  Mechanical Equation of State; Tempering Effects and the—By J. C. Fisher and C. W. MacGregor	120 897 143 728 302
Mechanical Properties of Metals at Low Temperatures; A Survey—By L. Seigle and R. M. Brick	813
Mechanical Properties of Steel; Influence of Metallurgical Factors on the  —By S. A. Herres and C. H. Lorig	775
Metal Cutting Processes, With Special Reference to Shaping: Some	
Fundamental Factors Involved in Intermittent—By K. J. B. Wolfe Metallography of Hot-Dipped Galvanized Coatings—By D. H. Rowland Metallography of Steel By S. A.	120 983
Metallurgical Factors on the Mechanical Properties of Steel—By S. A. Herres and C. H. Lorig	775
Metastable Austenite of 4 to 6% Chromium + 1/2% Molybdenum Cast Steel; Some Characteristics of—By Glen J. Guarnieri and J. J.	
Kanter	1147

Microhardness Tester and Some Factors Affecting the Diamond Pyramid Hardness Number at Light Loads; A New Design of—By R. F. Campbell, Q. Henderson and M. R. Donleavy	954	
	1147	
N		
Nickel-Beryllium Alloys; Heat Treatment and Properties of Some—By W. Lee Williams  Nitrogen and Oxygen Distribution in an Alloy Steel Ingot—By C. F.	163	
Sawver, J. W. Spretnak and G. Derge	922	
Sawyer, J. W. Spretnak and G. Derge  Nitrogen Influence on the Hardenability and Notch Toughness of Boron Treated Steels—By Thomas G. Digges and Fred M. Reinhart  Notch Toughness and Hardenability of Boron-Treated Steels; Influence of Nitrogen on—By Thomas G. Digges and Fred M. Reinhart		
0		
Owner and Nitsean Distribution in an Alley Start Land By C. E.		
Oxygen and Nitrogen Distribution in an Alloy Steel Ingot—By C. F. Sawyer, J. W. Spretnak and G. Derge	922	
P		
Physical Chemistry of Acid Refining Process—By Yap, Chu-Phay	83	
President's Annual Address	. 6	
S		
Secretary's Annual Report	12	
Shatter Cracks by Hot Working; Elimination of—By E. L. Koehler and	513	
H. B. Wishart  Shot Peening Intensities; Recrystallization as a Measurement of Relative  —By K. B. Valentine  Silicon-Chromium Spring Steel; An Investigation of Tempered—By H. J.	420	
Elmendorf	281	
Silicon Effect on the Properties of Cast Carbon and Carbon-Molybdenum Steels—By N. A. Ziegler, W. L. Meinhart and J. R. Goldsmith Spring Steel; An Investigation of Tempered Chromium-Silicon—By H. J.	617	
Elmendorf	281	
Spring Steels; Alloy—By E. T. Bittner	263	
A. Zapffe	315	
—By S. A. Herres and C. H. Lorig	775	
Yap, Chu-Phay	83	
Steel Plant Problems; Multiple Correlation Applied to—By W. T. Rogers	935	
Steels for Welded Structures; Ductility of—By Augustus B. Kinzel Subatmospheric Transformations; The Dimensional Stability of Steel—	27	
By S. G. Fletcher, B. L. Averbach and M. Cohen	703	
T		
Technical Program and Reports of Officers, ASM-29th Annual Con-		
vention, Chicago, October 18 to 24, 1947	1	
and C. W. MacGregor	302	
Treasurer's Annual Report	10	
W		
Welded Structures; Ductility of Steels for—By Augustus B. Kinzel White Cast Iron; The Location of Alloying Metals in—By H. A. Schwartz	27	
and James Hedberg	223	

